

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2475/002635		n of Transmittal of International Search Report V220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 00/05863	23/06/2000	30/06/1999
Applicant KNOLL AKTIENGESELLSC	CHAFT	
	t has been prepared by this International Searching At s being transmitted to the International Bureau.	uthority and is transmitted to the applicant
<u></u>	t consists of a total of <u>6</u> sheets. panied by a copy of each prior art document cited in th	als report.
	uage, the international search was carried out on the b filed, unless otherwise indicated under this item.	pasis of the international application in the
the international Authority (Rule 2	search was carried out on the basis of a translation o	f the international application furnished to this
b. With regard to any nucle was carried out on the b contained in the	eotide and/or amino acid sequence disclosed in the asis of the sequence listing: international application in written form. the international application in computer readable form.	
	quently to this Authority in written form.	
	quently to this Authority in computer readble form. at the subsequently furnished written sequence listing	dage not as beyond the displacure in the
	at the subsequently furnished written sequence listing plication as filed has been furnished.	dues not go beyond the disclosure in the
the statement th furnished	at the information recorded in computer readable form	n is identical to the written sequence listing has been
2. X Certain claims	were found unsearchable (See Box I).	
3. Unity of inventi	ion is lacking (see Box II).	
4. With regard to the title,		
the text is appro	ved as submitted by the applicant.	
X the text has bee	n established by this Authority to read as follows:	
SCREENING FOR CO	MPOUNDS MODULATING MITOCHONDRIAL	PROTON LEAK
5. With regard to the abstract,		
X the text is appro	ved as submitted by the applicant.	
the text has bee within one monti	n established, according to Rule 38.2(b), by this Autho h from the date of mailing of this international search i	ority as it appears in Box III. The applicant may, report, submit comments to this Authority.
6. The figure of the drawings to	to be published with the abstract is Figure No.	1
as suggested by	the applicant.	None of the figures.
X because the app	olicant failed to suggest a figure.	
because this fig	ure better characterizes the invention.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 56,58 and 60 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.

Continuation of Box I.1

Claims Nos.: 56,58,60

Rule 39.1(iv) PCT — Method for treatment of the human or animal body by therapy

Continuation of Box I.2

Present claims 53-55 relate to compounds defined by reference to a desirable characteristic or property, namely that these compounds are identifiable in a screening method according to any one of claims 3-52. Claim 56 relates to a method using these compounds and claim 57 relates to a use of these compounds.

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds mentioned in the description at pages 28. lines 4-22.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERMINIONAL SEARCH REPORT

Inte nal Application No PCT/EP 00/05863

A. CLASS	FICATION OF SUBJECT MATTER G01N33/50		-
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
B. FIELDS	SEARCHED		
Minimum de IPC 7	ocumentation searched (classification system followed by classificati G01N	on symbols)	
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in the fields se	earched
Electronic d	lata base consulted during the international search (name of data ba	se and, where practical, search terms used)
BIOSIS	, EPO-Internal, WPI Data, PAJ, EMBAS	SE, MEDLINE, CHEM ABS D	ata
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.
X	JEKABSONS M ET AL: "Effect of nu on rat liver and skeletal muscle mitochondria non-phosphorylating respiration and membrane potential FASEB JOURNAL, vol. 12, no. 5, 20 March 1998 (1998-03-20), page XP002154017 Annual Meeting of the Professional Research Scientists on Experiment	A1." A813	1,3,5-7, 11, 15-23, 27,29-33
A	Biology 98, Part II;San Francisco California, USA; April 18-22, 199 ISSN: 0892-6638 cited in the application left-hand column, paragraph 4714		1-3, 34-36, 41-43, 50-52
X Furti	ner documents are listed in the continuation of box C.	Patent family members are listed	in annex.
° Special ca	tegories of cited documents :	PTF John document million of the state of th	we stion at filling dot -
"A" docume consid "E" earlier of filing d "L" docume which citation "O" docume other r "P" docume later th	ent defining the general state of the art which is not lered to be of particular relevance document but published on or after the international late and which may throw doubts on priority claim(s) or is cited to establish the publication date of another no rother special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but can the priority date claimed	"Y" later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the considered novel or cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the considered to involve an involv	the application but cory underlying the lairned invention be considered to cument is taken alone lairned invention rentive step when the re other such docusts to a person skilled
	actual completion of the international search	Date of mailing of the international sea	rch report
3	•	24/01/2001	
i wame and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Tuynman, A	

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INTERMITIONAL SEARCH REPORT

Intended Inte

C (Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PC1/EP 00/05863
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MONEMDJOU S ET AL: "Mitochondrial proton leak in brown adipose tissue, mitochondria of UCP1-deficient mice is GDP insensitive" AMERICAN JOURNAL OF PHYSIOLOGY: ENDOCRINOLOGY AND METABOLISM, June 1999 (1999-06), pages E1073-E1082, XP002154018	1,3,6,7, 10,11, 14-23, 25-28, 30,31,33
A	abstract page E1074, left-hand column, line 7 -page E1075, left-hand column, line 42 page E1075; figure 1 page E1076; figure 3	1,3,36,
		41,43, 50,52
A	EARNSHAW M J ET AL: "THE ADENINE NUCLEOTIDE CARRIER OF PLANT MITOCHONDRIA CONTRACTION INDUCED BY ADP" PLANT SCIENCE LETTERS, vol. 6, no. 5, 1976, pages 343-348, XP000972265 ISSN: 0304-4211 the whole document	1-4,21,
A	BOUILLAUD F ET AL: "A sequence related to a DNA recognition element is essential for the inhibition by nucleotides of proton transport through the mitochondrial uncoupling protein." EMBO (EUROPEAN MOLECULAR BIOLOGY ORGANIZATION) JOURNAL, vol. 13, no. 8, 1994, pages 1990-1997, XP002154020 ISSN: 0261-4189 abstract page 1994; figure 7	1-4,7,9, 11,13, 29,32, 34,35, 41,42, 50,51
X	BLOCK M R ET AL: "INTERACTION OF 3'-0-1 NAPHTHOYL ADP A FLUORESCENT ADP ANALOG WITH THE ADP ATP CARRIER PROTEIN IN THE MITOCHONDRIAL MEMBRANE" BIOCHEMISTRY, vol. 21, no. 22, 1982, pages 5451-5457, XP002154021 ISSN: 0006-2960 abstract	37-40

INTERNATIONAL SEARCH REPORT

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		PC1/EP 00/05863
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	CADENAS S ET AL: "AMP decreases the efficiency of skeletal-muscle mitochondria" BIOCHEMICAL JOURNAL, vol. 351, no. 2, 15 October 2000 (2000–10–15), pages 307–311, XP000974944 the whole document	1-52
X	PARES, XAVIER ET AL: "The reaction of bovine pancreatic ribonuclease A with 6-chloropurineriboside 5'- monophosphate. Evidence on the existence of a phosphate-binding sub-site" EUR. J. BIOCHEM., vol. 105, no. 3, 1980, pages 571-580, XP000974761	53-55
Α	abstract	57,59

Copy for the Elected Office (EO/US) ENT COOPERATION TREA

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF THE RECORDING NASH, David, Allan OF A CHANGE Haseltine Lake & Co. Imperial House (PCT Rule 92bis.1 and 15-19 Kingsway Administrative Instructions, Section 422) London WC2B 6UD **ROYAUME-UNI** Date of mailing (day/month/year) 13 December 2001 (13.12.01) Applicant's or agent's file reference IMPORTANT NOTIFICATION 2475/002635 International application No. International filing date (day/month/year) PCT/EP00/05863 23 June 2000 (23.06.00) 1. The following indications appeared on record concerning: the applicant the inventor the agent the common representative State of Nationality State of Residence Name and Address DE DE KNOLL AKTIENGESELLSCHAFT D-67061 Ludwigshafen Telephone No. Germany Facsimile No. Teleprinter No. 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: the person X the name the address the nationality the residence State of Nationality State of Residence Name and Address DE DE KNOLL GMBH D-67061 Ludwigshafen Telephone No. Germany Facsimile No. Teleprinter No. 3. Further observations, if necessary: 4. A copy of this notification has been sent to: the receiving Office the designated Offices concerned the International Searching Authority the elected Offices concerned the International Preliminary Examining Authority other: Authorized officer The International Bureau of WIPO 34, chemin des Colombettes Ki-Nam HA 1211 Geneva 20, Switzerland

Telephone No.: (41-22) 338.83.38

Form PCT/IB/306 (March 1994)

Facsimile No.: (41-22) 740.14.35

Cor	by for the	Elected Office (EO/US)
F) EI	NT CO	OPERATION	N TREA

	From the INTERNATIONAL BUREAU	
PCT	То:	
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 07 November 2001 (07.11.01)	GOLDSCHEID, Bettina BASF Aktiengesellschaft D-67056 Ludwigshafen ALLEMAGNE	
Applicant's or agent's file reference		=
2475/002635	IMPORTANT NOTIFICATION	
International application No. PCT/EP00/05863	International filing date (day/month/year) 23 June 2000 (23.06.00)	
The following indications appeared on record concerning: The applicant the inventor	the agent the common representative	
Name and Address KNOLL AKTIENGESELLSCHAFT	State of Nationality State of Residence DE DE	
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the the person X the name the add		
Name and Address	State of Nationality State of Residence	
KNOLL GMBH	DE DE	
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary:		
6. Fullion 0.500. Automot, in 1.050.000.		
4. A copy of this notification has been sent to:		
X the receiving Office	the designated Offices concerned	
the International Searching Authority	X the elected Offices concerned	:
the International Preliminary Examining Authority	other:	
The International Property of WIPO	Authorized officer	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Ki-Nam HA	
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38	

PCT

REC'D 0 4 OCT 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or agent's file reference	FOR FURTHER ACT	TIONI .	ation of Transmittal of International			
2475/002	635	FOR FURTHER ACT	Preliminary	Examination Report (Form PCT/IPEA/416)			
International	application No.	International filing date (day/month/year) Priority date (day/month/year)					
PCT/EP0	0/05863	23/06/2000		30/06/1999			
	International Patent Classification (IPC) or national classification and IPC						
C12Q1/00	J						
Applicant							
KNOLL A	KTIENGESELLSCHAFT e	tal.					
1. This in	ternational preliminary exami	nation report has been pro	repared by this Inte	rnational Preliminary Examining Authority			
	transmitted to the applicant a			,			
2. This R	EPORT consists of a total of	7 sheets, including this of	over sheet.				
. □ Th	is report is also accompanie	hv ANNEXES in sheet	ts of the description	n, claims and/or drawings which have			
be	en amended and are the bas	is for this report and/or sh	neets containing red	ctifications made before this Authority			
(se	ee Rule 70.16 and Section 60	17 of the Administrative In	structions under th	e PCT).			
These	annexes consist of a total of	sheets.					
6		at a substitution of the s					
3. This re	port contains indications rela	ting to the following items:	ï				
1	Basis of the report						
11	☐ Priority						
111	Non-establishment of o	pinion with regard to nove	elty, inventive step a	and industrial applicability			
IV	Lack of unity of invention	n					
V		nder Article 35(2) with regard to novelty, inventive step or industrial applicability; ons suporting such statement					
VI	☐ Certain documents cite	•					
VII	⊠ Certain defects in the in	ternational application					
VIII	☑ Certain observations on	the international applicat	tion				
	•						
Date of subm	nission of the demand	7 c	Date of completion of t	his report			
08/12/200	0	0	01.10.2001				
Nove and m	alling address of the international		Authorized officer				

Hinchliffe, P

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European Patent Office D-80298 Munich

Fax: +49 89 2399 - 4465

Tel. +49 89 2399 - 0 Tx: 523656 epmu d

preliminary examining authority:





INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/05863

I. Basis	of	the	report
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THE PERSON OF TH

	and		response to an invitation under Article 14 are referred to in this report as "originally filed" of this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-2	9	as originally filed
	Cla	ims, No.:	
	1-6	0	as originally filed
	Dra	wings, sheets:	
	1/1		as originally filed
2.			uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.
	The	ese elements were a	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pu	blication of the international application (under Rule 48.3(b)).
		the language of a 155.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule
3.			leotide and/or amino acid sequence disclosed in the international application, the y examination was carried out on the basis of the sequence listing:
		contained in the in	ternational application in written form.
			the international application in computer readable form.
		_	ently to this Authority in written form.
		·	ently to this Authority in computer readable form.
		The statement that	the subsequently furnished written sequence listing does not go beyond the disclosure in oplication as filed has been furnished.
		The statement that listing has been ful	the information recorded in computer readable form is identical to the written sequence raished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:

1. With regard to the elements of the international application (Replacement sheets which have been furnished to

DEI IMINIA DV



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/05863

		the drawings,	sheets:							
5.		This report has been considered to go bey					nad not bee	n made, s	ince they	have been
		(Any replacement sh report.)	eet contair	ning such ame	endments m	าust be refe	erred to und	ler item 1 a	and anne.	xed to this
6.	Add	litional observations, i	f necessar	y:						
		•								
III.	Nor	ո-establishment of օլ	pinion wit	h regard to n	ovelty, inve	entive step	and indus	trial appl	icability	
1.		questions whether th						entive ste	p (to be n	on-
		the entire international	al applicati	on.						
	×	claims Nos. 1,2,34-36	6,41-43,47	·-60.						
be	caus	e:								
	×	the said international following subject mat see separate sheet								the
	⊠	the description, claim unclear that no mean see separate sheet					<i>low</i>) or said	claims No	os. 1,2 are	e so
		the claims, or said cla			7-60 are so	inadequat	tely support	ed by the	descriptio	n that no
		no international searc	ch report ha	as been estab	lished for th	ne said clai	ms Nos			
2.	and/	eaningful internationa or amino acid sequen ructions:								
		the written form has r	not been fu	rnished or do	es not comp	oly with the	standard.			
		the computer readabl	e form has	s not been furr	nished or do	es not con	nply with th	e standard	d.	
	citat	soned statement und tions and explanatio ement				velty, inve	entive step	or indust	rial appli	cability;
	Nove	elty (N)	Yes:	Claims						





INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/EP00/05863

No:

Claims 3,5-7,9-11,13-23,25-33,37-40,44-46

Inventive step (IS)

Yes: No:

Claims

Claims 3,4,5-7,8,9-11,12,13-23,24,25-33,37-40,44-46

Industrial applicability (IA)

Yes:

Claims 3-33,37-40,44-46

No: Claims

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

ITEM III

- In contrast to the ISR, the IPEA is of the opinion that claims 1 and 2 are so 1. unclear that a meaningful examination is not possible (see item VIII below for the reasons).
- Claims 55,56,58,60 relate to subject-matter considered by this Authority to be 2. covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

ITEM V

- 1. Claims 3,5-7,9-11,13-23,27,29-30 are not novel, contrary to Article 33(2) PCT, in the light of D1 (as cited sequentially in the ISR). This document discloses a method of testing the effects of nucleotides on non-phosphorylating VO2 which involves the steps covered by the said claims.
- 2. Claims 3,6,7,10,11,14-23,25-28,30-33 are also not novel, contrary to Article 33(2) PCT, in the light of D2 (as cited sequentially in the ISR). Again this document discloses methods whereby the effects of nucleotides on UCPs is measured using an oxygen electrode (see in particular materials and methods section).
- 3. Claims 37-40, are not novel, contrary to Article 33(2) PCT, in the light of D5 (as cited in the ISR). This document discloses that a mitochondrial transporter protein (ANC is apparently a member of this family and is responsible for shuttling ADP/ATP) may be inhibited by N-ADP, a fluorescently labelled analog of ADP. In addition CATR and bongkrekic acid are both compounds that reduce the amount of the labelled ligand (see in particular p.5453, col.1, fourth paragraph).
- Claims 4,8,12,24 do not involve an inventive step contrary to Article 33(3) PCT. 4. The particular modifications made to the assays of either D1 or D2 are considered to be routine and within the realms of a normally skilled person.
- Claims 44-46 are not novel (Article 33(2) PCT) in the light of D2. It is assumed 5.



that the UCP 1-3 proteins of this document are equivalent to the ANC 1-3 proteins mentioned on page 13, line 21 of the description. This document teaches an assay whereby GDP was used to control non phosphorylative oxidation in mice lacking UCP-1. Comparison with normal systems showed that UCP-2 and UCP-3 were not GDP sensitive. Consequently D2 discloses an assay for identifying compounds which modulate proton leak.

6. For the assessment of the present claims 55,58,60 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

ITEM VII

1. Contrary to the requirements of Article 5 PCT, claims 34-36 and 41-43,47-60 are not supported by the description. It is only assumed that the compounds identified will have an effect on obesity (see p.2, lines 13-15 and p.28, lines 24-31). No actual evidence is provided to substantiate any of the claims and consequently the claims do not fulfill the requirements of said Article. The same is true for cachexia. In addition the introduction of D2 notes that UCP-1 deficient mice were not obese as expected, leading to further doubts as to whether the currently identified compounds/methods would really be useful for treating obesity.

ITEM VIII

1. Claims 1 and 2 are deemed to be contrary to the requirements of Article 6 PCT because they are unclear insofar as they fail to provide sufficient information for any valid opinion to be formed on whether they are novel or inventive. For instance the prior art document D1 (as cited in the ISR) discloses several proteins related to UCP-1 which are involved in non phosphorylating respiration. Any of these proteins could be or include such a site, but as the claims fail to mention whether protein or gene regulation is occurring the skilled person is left completely.



confused as to what sort of regulatory site is encompassed.

2. The term "ANC", found in claims 34 et seq. should be clarified on its first use (Article 6 PCT).

INTERNATIONAL SEARCH REPORT



Inter: nal Application No PCT/EP 00/05863

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER G01N33/50		
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
B. FIELDS	SEARCHED		
Minimum do IPC 7	ocumentation searched (classification system followed by classificati G01N	on symbols)	
	lion searched other than minimum documentation to the extent that s		
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used)
BIOSIS	, EPO-Internal, WPI Data, PAJ, EMBAS	SE, MEDLINE, CHEM ABS D	ata
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rei	evant passages	Relevant to claim No.
Х	JEKABSONS M ET AL: "Effect of no on rat liver and skeletal muscle mitochondria non-phosphorylating respiration and membrane potential FASEB JOURNAL, vol. 12, no. 5,		1,3,5-7, 11, 15-23, 27,29-33
A	20 March 1998 (1998-03-20), page XP002154017 Annual Meeting of the Profession Research Scientists on Experiment Biology 98, Part II; San Francisco California, USA; April 18-22, 199 ISSN: 0892-6638 cited in the application left-hand column, paragraph 4714	al tal o,	1-3, 34-36, 41-43, 50-52
X Furt	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.
A docume consic re* earlier of filing of the citation of the	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international state ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	 "T" later document published after the interpretary or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the control of cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the control of cannot be considered to involve an indocument is combined with one or memts, such combination being obvious in the art. "&" document member of the same patent 	the application but every underlying the claimed invention to be considered to coment is taken alone claimed invention ventive step when the ore other such docu—us to a person skilled
	actual completion of the International search	Date of mailing of the international se	arch report
	January 2001	24/01/2001	
Name and I	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Eav. (+31-70) 340-3016	Authorized officer Tuynman, A	

INTERNATIONAL SEARCH REPORT



Inter vial Application No PCT/EP 00/05863

Relevant to claim No. 1,3,6,7, 10,11, 14-23, 25-28, 30,31,33
1,3,6,7, 10,11, 14-23, 25-28, 30,31,33
10,11, 14-23, 25-28, 30,31,33
41,43, 50,52
1
1-4,21, 34
1-4,7,9, 11,13, 29,32, 34,35, 41,42, 50,51
37-40





Inter nal Application No PCT/EP 00/05863

		PCT/EP 00	/05863
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
ategory *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
T	CADENAS S ET AL: "AMP decreases the efficiency of skeletal-muscle mitochondria" BIOCHEMICAL JOURNAL, vol. 351, no. 2, 15 October 2000 (2000-10-15), pages 307-311, XP000974944 the whole document		1-52
X	PARES, XAVIER ET AL: "The reaction of bovine pancreatic ribonuclease A with 6-chloropurineriboside 5'- monophosphate. Evidence on the existence of a phosphate-binding sub-site" EUR. J. BIOCHEM., vol. 105, no. 3, 1980, pages 571-580, XP000974761		53-55
A	abstract		57,59
		·	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 56,58 and 60 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.

Continuation of Box I.1

Claims Nos.: 56,58,60

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

Continuation of Box I.2

Present claims 53-55 relate to compounds defined by reference to a desirable characteristic or property, namely that these compounds are identifiable in a screening method according to any one of claims 3-52. Claim 56 relates to a method using these compounds and claim 57 relates to a use of these compounds.

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the compounds mentioned in the description at pages 28. lines 4-22.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.